REVISION			
ZONE	LTR	DESCRIPTION	DATE | APPROVED

PREAMP

BOOST CUT

TONE AMP

INPUTS HI LO

E1 E2 E6 R1 330K R2 330K C1 .0047 C2 10PF R3 680 K

+15V C41,0.1

4558 U1B C4,33PF R4,100K

C5,.01 R6,10K E4 SI NORM E5 BRITE

R5 47K R7 1MEG

C6 1.0 R8 47K E3 DARK

R9 10K R65 100K R11 10K

CW BASS C7,.039 C8,.039

CW C9,.01 R10 4.7K R66,100K R12 4.7K

MID J3 J1 J11 J2 R13 4.7K C10,.01

CW R67 100K TREBLE J12 C13 .0047

C34 33 PF R14 10K R15 10K

4558 U1A C42 0.1 -15V

VOL C3 1.0 CW OP4 R68 10K

MAIN SUMMING

BUSS C15,68 PF R16 10K

MASTER VOLUME

R18, 100K U3A 4558 C16 1.0 R21 47 E13 R20 100K E14

TO PWR AMP

MAIN OUT

-15V C46,0.1

MEGA BRUTE CHANGES

CR1-4 = 6A1 Diodes
C39-40= 4700 uf/35V

MEGA BRAIN-CHANGES

CR1-4 & C39-40 as above
R4 - 130K
R18 - 220K
*un-numbered resistor change

For BRUTE I/III , DELETE BELOW the ----------(dotted line

OP1 R36 1K C24 .01 R37 470K

071 U4 C33 33PF R38 4.7K R69 CW 1 MEG

+15V R55 3.3K

C26, .01 R41,22K

C47,0.1 R43 22K R42 680

82K C29 .001 U5B 4558 C30 1.0

OP2 R72 10K CW GAIN

R17 10K

IN4002

R54 3.3K -15V C25, .001 R39 1.5 K

BUSS +15V C45,0.1

R23 10K E11 C14,220 fx loop OUTPUT

R22 10K R24 180K

U3B 4558 C17 .02 R26 15K

REVERB DRIVE

Q1 NSE 180 R28 4.7K C18 20PF CR7 IN 4002 CR8 IN 4002 R30 10 C20 E15 R31 10 10/35 E16

REVERB DRIVE SEND

U2 C19 330PF R29 4.7K Q2 NSE 170 R32 100

R27 27 C44 0.1 -15V

REVERB SUMMING

+15V C43 0.1

REVERB RECOVERY

*MegaBrain Change to 27K

R25 12K fx loop INPUT

10K C21 R71 10K CW REVERB 1.0

4558 U5A R33 82K C22,470 R34 8.2K C48,0.1 .039

C23.01 R35 15K OP5 E17 E18

REVERB RETURN

DIST ON/OFF S2 PART OF R72 DIST VOL

+15V R44 47K R45 10K C31 100 R47 220K

S2 E12 E22 R46 4.7K Q3 2N2222 C32 0.1

FOOT SW

E21 REVERB R57 270 R56 270 C50 10/35 OP5

PHOTO CELL DRIVE

For BRUTE I/III, DELETE

+15V C49 0.1

LM358 U6B R48 10K R49 10K R50 13K R51 10K R52 470 OP4 R53 470 OP2 OP1

POWER SUPPLY

R62 3.3K 1/2W C39 470/35 LM7815 U7 CR1 CR2 CR3 CR4 CR5 CR6 U8 LM7915 C40 470/35 E24 CR5,6=IN4002 -15V

R63 4.7K C37 0.1 R64 4.7K C38 0.1

E8 E9 E10 SO1

V- V+ GND C40- C39+ E10

TO POWER AMP

SO1

CR 1-4=3E1

ITEM NO.	QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	MATERIAL SIZE, DESCRIPTION AND SPECIFICATION

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON DIMENSIONS: DECIMAL 2 PLACE ± .02, 3 PLACE ± .010, 4 PLACE ± .0005; SURFACE FINISH 125; ANGULAR ± 1°

MATERIAL

FINISH

NEXT ASSY | USED ON | APPLICATION

CONTRACT NO.

APPROVED | DATE

CHECKED

DRAWN 7-8-98

APPROVED

APPROVED

USE FOR MODELS: MINI-BRUTES I-IV, MEGA BRUTE,

POLYTONE PREAMP SCHEMATIC DIAGRAM

SIZE D | CODE IDENT NO. | NUMBER

SCALE | SHEET